



# Nová tvář routerů Turris

Marek Šašek • [marek.sasek@nic.cz](mailto:marek.sasek@nic.cz) • 11. 11. 2020

# Nové uživatelské rozhraní - reForis

- Přechod na nové rozhraní
- Nové technologie
- Nový vzhled
- Nové komponenty



# Co nás k redesignu vedlo

- Rozrůstající se projekt
- Špatná udržitelnost staré verze
- Nestandardizované řešení
- Nedostačující technologie



# Na jakých technologiích je reForis postaven

- Python → Flask
- Javascript → React
- Bootstrap



- Overview
- 🌐 Network Settings ▾
- 👤 Administration ▾
- 📦 Package Management ▾
- 🔑 OpenVPN ▾
- 📶 Netmetr ▾
- 🔗 Remote Access ▾
- 📁 Remote Devices ▾
- 📄 Data Collection
- ⚙️ Advanced Administration [↗️](#)
- 📄 About

**AUTOMATIC UPDATES**

Activated ✔️

**DATA COLLECTION**

Disabled ❌

**DYNAMIC FIREWALL**

Activated ✔️

**NETMETR** [↗️](#)

Download <small>Mbps</small>	930
Upload <small>Mbps</small>	930
Ping <small>ms</small>	-1
Date	02:02 23.09.2020
Link	<a href="#">Details <a href="#">↗️</a></a>

**CONNECTION TEST** [↗️](#)

IPv4 connectivity	—
IPv4 gateway connectivity	—
IPv6 connectivity	—
IPv6 gateway connectivity	—

[Test connection](#)

**OPENVPN CLIENTS** [↗️](#)

us\_protonvpn ✔️

## Notifications

🗑 Dismiss all

- 🔄
September 23, 2020 5:39 AM
✕

  - Installed version 2.6.0-1 of package switch-branch
- 🔄
September 22, 2020 5:44 PM
✕

  - Installed version 1.0-1 of package turris-webapps-nextcloud
- 🔄
September 22, 2020 9:53 AM
✕

  - Installed version git-20.265.67308-c1fc83b-1 of package luci-proto-ipv6
  - Installed version git-20.265.67308-c1fc83b-1 of package luci-proto-ppp
  - Installed version git-20.265.67308-c1fc83b-1 of package luci-app-opkg
  - Installed version git-20.265.67...

[Show more](#)
- 🔄
September 21, 2020 4:47 PM
✕

  - Installed version git-20.265.16228-f079bc-1 of package luci-proto-ipv6
  - Installed version git-20.265.16228-f079bc-1 of package luci-proto-ppp
  - Installed version git-20.265.16228-f079bc-1 of package luci-app-opkg
  - Installed version git-20.265.16...

[Show more](#)



# Snapshots

This is an addition to Schnapps command-line utility which can provide more [advanced options](#).

## Create new snapshot

Description

Description is required.

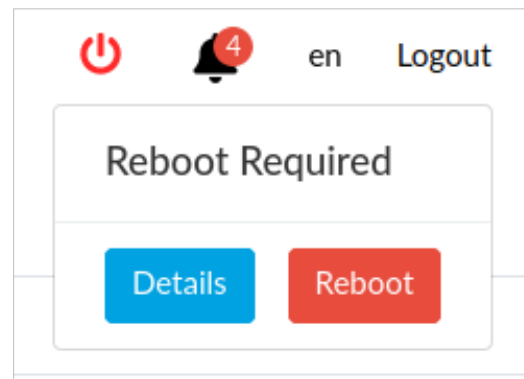
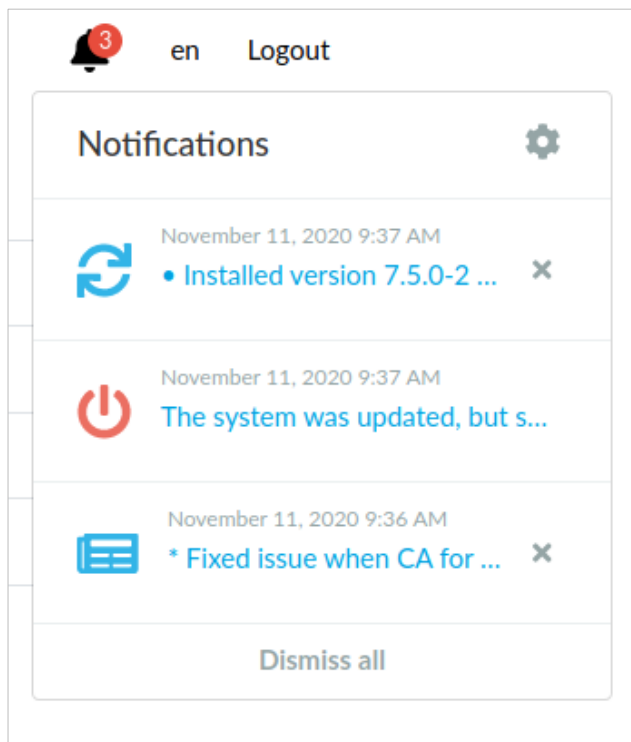
Save

## Available Snapshots

#	Description	Created at	Size	
2	Rollback to snapshot factory	3/16/2020 7:39 AM	151.93MiB	<a href="#">Rollback</a> <a href="#">Delete</a>
11	Rollback to snapshot factory	7/21/2020 3:48 PM	140.86MiB	<a href="#">Rollback</a> <a href="#">Delete</a>
94	Snapshot created by cron	8/23/2020 3:05 AM	56.12MiB	<a href="#">Rollback</a> <a href="#">Delete</a>
107	Snapshot created by cron	8/30/2020 3:05 AM	34.71MiB	<a href="#">Rollback</a> <a href="#">Delete</a>
122	Snapshot created by cron	9/6/2020 3:05 AM	33.37MiB	<a href="#">Rollback</a> <a href="#">Delete</a>
135	Snapshot created by cron	9/13/2020 3:05 AM	316.86MiB	<a href="#">Rollback</a> <a href="#">Delete</a>
152	Snapshot created by cron	9/20/2020 1:05 AM	51.67MiB	<a href="#">Rollback</a> <a href="#">Delete</a>



# Ikony notifikací



# Vzhled stránek

## Wi-Fi



If you want to use your router as a Wi-Fi access point, enable Wi-Fi here and fill in an SSID (the name of the access point) and a corresponding password. You can then set up your mobile devices, using the QR code available within the form.

### Wi-Fi 1

SSID

TurrisMarek

SSID which contains non-standard characters could cause problems on some devices.

Password

••••••••

WPA2 pre-shared key, that is required to connect to the network.

Hide SSID

If set, network is not visible when scanning for available networks.

GHz

2.4  5

The 2.4 GHz band is more widely supported by clients, but tends to have more interference. The 5 GHz band is a newer standard and may not be supported by all your devices. It usually has less interference, but the signal does not carry so well indoors.

802.11n/ac mode

802.11ac - 80 MHz wide channel

Change this to adjust 802.11n/ac mode of operation. 802.11n with 40 MHz wide channels can yield higher throughput but can cause more interference in the network. If you don't know what to choose, use the default option with 20 MHz wide channel.

Channel

36 (5180 MHz)

Enable Guest Wi-Fi

Enables Wi-Fi for guests, which is separated from LAN network. Devices connected to this network are allowed to access the internet, but aren't allowed to access other devices and the configuration interface of the router. Parameters of the guest network can be set in the Guest network tab.

### Wi-Fi 2

Save

## Region and Time



It is important for your device to have the correct time set. If your device's time is delayed, the procedure of SSL certificate verification might not work correctly.

### Region Settings

Please select the timezone the router is being operated in. Correct setting is required to display the right time and for related functions.

Continent or ocean

Europe

Country

Czech Republic

Timezone

Prague

### Time Settings

Time should be up-to-date otherwise DNS and other services might not work properly.

How to set time

Via NTP

[Show NTP servers list](#)

Time

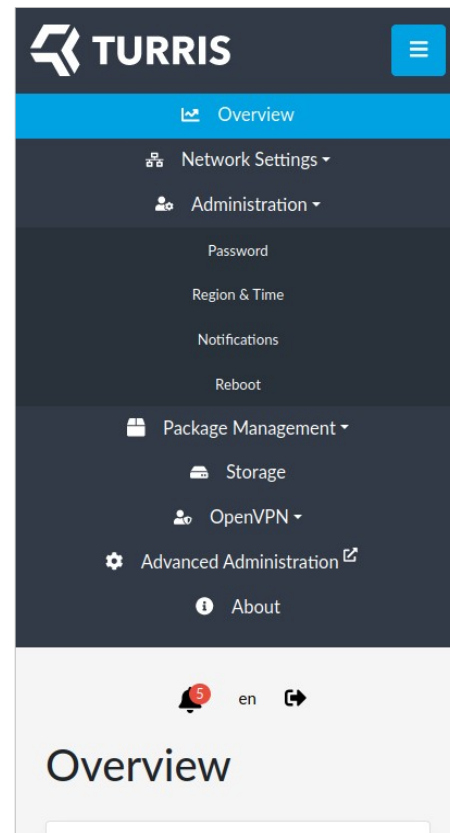
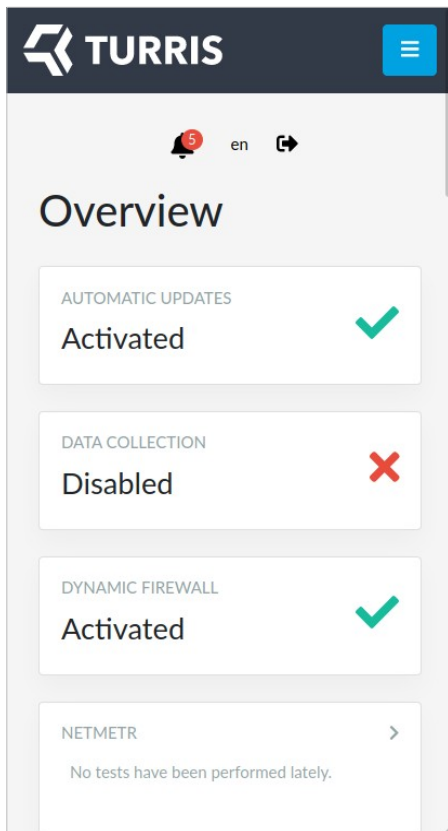
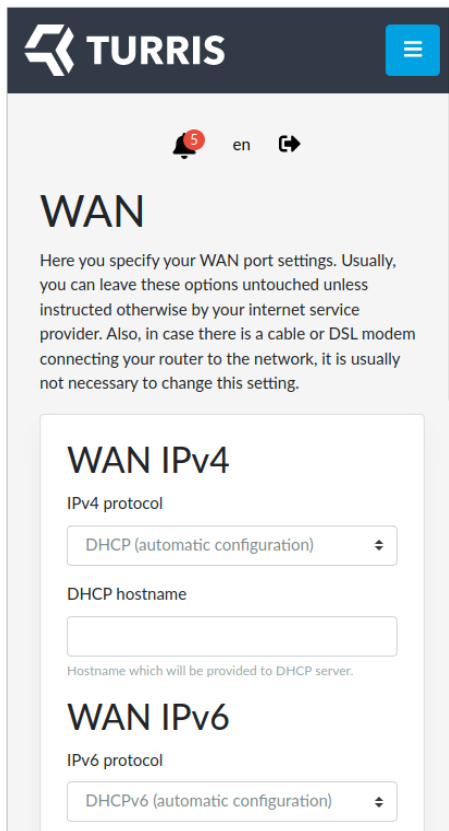
2020-11-11 02:27:53

Save

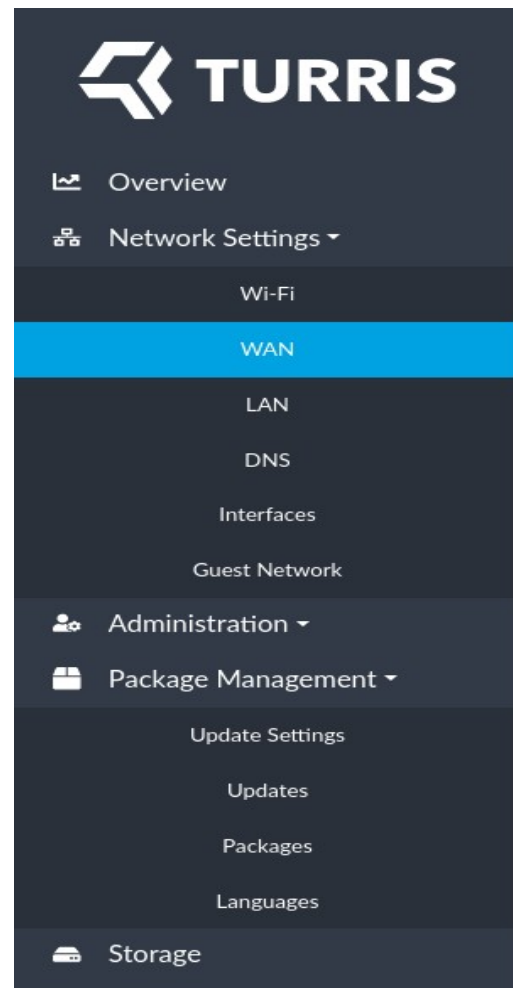
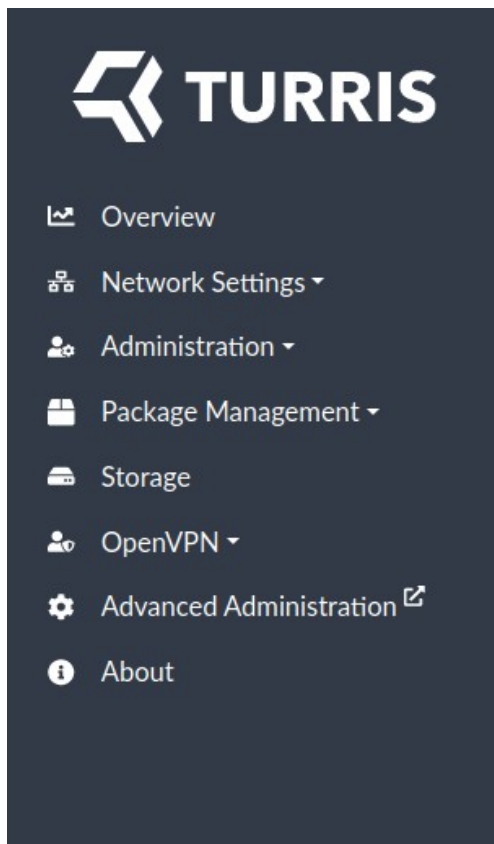




# Responzivní design



# Změna navigace



# Výběr pluginů

## Packages List

- Extensions of network protocols for 3G/LTE [↗](#)  
Support for Turrís Omnia and Turrís MOX LTE pack.
- Data Collection [↗](#)  
Software for participation in data collection and distributed adaptive firewall.
  - Usage Survey  
Collect data about router usage (installed packages, Internet connection type and etc.).
  - Dynamic Firewall  
Add firewall rules to block attackers detected by Turrís collection network.
  - Firewall Logs  
Collect logs from firewall for attempted connections.
  - Minipots  
Minimal honeypots to catch attackers for various protocols.
  - SSH Honeypot  
SSH honeypot using Honeypot as a Service (haas.nic.cz).
- RIPE Atlas SW Probe [↗](#) **Community**  
Global platform, which measures Internet connectivity and reachability.
- DVB tuner [↗](#) **Community** **Advanced users**  
Software for sharing television received by a DVB tuner on Turrís. Does not include device drivers.
- Hardening **Experimental**  
Seccomp tools for system hardening.
- LuCI extensions **Community**  
Several additional tabs and controls for the advanced LuCI interface.



# Informace o zařizení

## About

Here you can find some information about your device. Please include it into your message if you contact our [customer support](#).

Device	Turris Omnia
Serial number	47244641026
reForis version	1.0.1
Turris OS version	5.1.3
Turris OS branch <span>?</span>	<a href="#">HBL</a> <span>↗</span>
Kernel version	4.14.202



The workflow was set. You may proceed to next step.

en

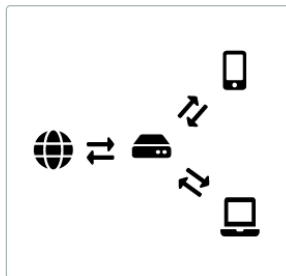
Skip guide ▶▶

Next step ▶▶

## Guide Workflow

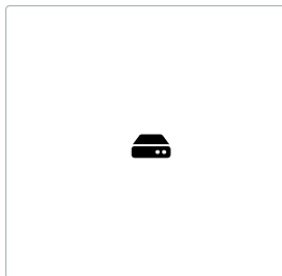
Here you can set the guide walkthrough which will guide you through the basic configuration of your device.

### Router recommended



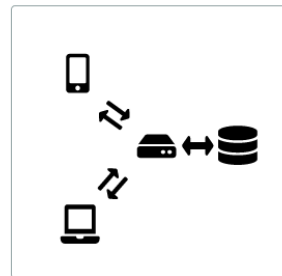
After you finish this workflow your device will be able to act as a fully functional router. It assumes that you want to have more or less standard network setup.

### Minimal



Just set your password and you are ready to go. This workflow is aimed to more advanced users who intend to set everything manually.

### Local Server



This workflow will help you to setup your device to act as a local server. It means that the device will provide some kind of service to other devices within your local network (e.g. act as a network-attached storage).





# Děkuji za pozornost

Marek Šašek • [marek.sasek@nic.cz](mailto:marek.sasek@nic.cz)